

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSD2836 and CMSD2838 types are ultra-high speed silicon switching diodes manufactured by the epitaxial planar process, in an epoxy molded SUPERmini™ surface mount package, designed for high speed switching applications.

The following configurations are available:

CMSD2836	DUAL, COMMON ANNODE	MARKING CODE: A2C
CMSD2838	DUAL, COMMON CATHODE	MARKING CODE: A6C

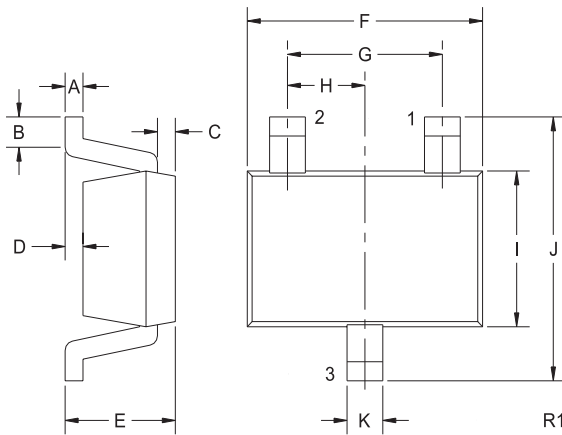
MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	75	V
Average Forward Current	I _O	200	mA
Peak Forward Current	I _{FM}	300	mA
Power Dissipation	P _D	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ _{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
B _{VR}	I _R =100μA	75			V
I _R	V _R =50V			100	nA
V _F	I _F =10mA			1.0	V
V _F	I _F =50mA			1.0	V
V _F	I _F =100mA			1.2	V
C _T	V _R =0, f=1 MHz		1.5	4.0	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA			4.0	ns

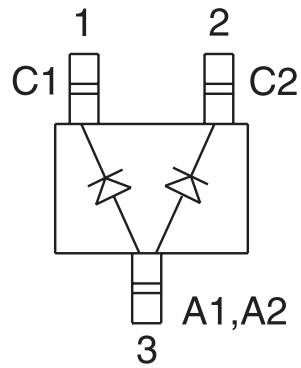
SOT-323 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.008	0.10	0.20
B	0.004	-	0.10	-
C	0.004	0.008	0.10	0.20
D	-	0.004	-	0.10
E	0.031	0.043	0.80	1.10
F	0.071	0.087	1.80	2.20
G	0.051		1.30	
H	0.026		0.65	
I	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

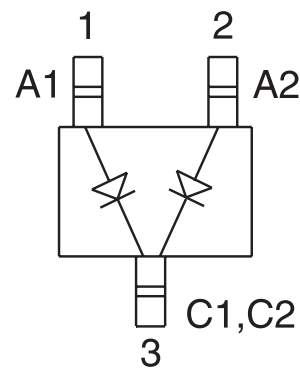
SOT-323 (REV: R1)

Bottom View



CMSD2836

Bottom View



CMSD2838